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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/695,400	10/27/2003	Sean P. Fitzgerald	02-027	5625	
34833 FRANK ROSE	7590 10/12/2007 ENBERG		EXAM	INER	
P.O. BOX 2923	•		NAGPAUL, JYOTI		
SAN FRANCI	SCO, CA 94129-0230		ART UNIT PAPER NUMBER		
	·	1797			
			MAIL DATE	DELIVERY MODE	
			10/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)	
		10/695,400	FITZGERALD ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Jyoti Nagpaul	1743	
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	correspondence addres	s
WHIC - Exten after 5 - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. nely filed the mailing date of this commur D (35 U.S.C. § 133).	
Status				
2a) <u>□</u> 3) <u>□</u>	Responsive to communication(s) filed on <u>23 Ju</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.		rits is
Disposition	on of Claims			
5) □ 6) ⊠ 7) □ 8) □	Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) 1-24 and 33-35 is/are Claim(s) is/are allowed. Claim(s) 25-32 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or papers	e withdrawn from consideration.		
10) 🗌 -	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplished any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 2.	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.	
Priority u	nder 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau ee the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stag	je
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

DETAILED ACTION

Election/Restrictions

Applicant's election of Group VI (Claims 25-32) in the reply filed on July 23, 2007 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "a plate comprising an opening is disposed between the first and second layers" as recited in Claim 26 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an

Art Unit: 1743

application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

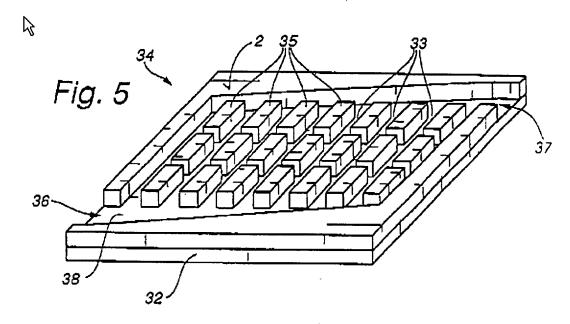
Claims 25-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Fuesser (US 6101715).

Fuesser teaches a microcooling device. The method comprises flowing a first fluid stream into a manifold and then through a first channel in a first direction and flowing a portion of the first fluid stream to a second channel. The second channel extends at a nonzero angle relative to the first direction. (See Figure 5) The second channel comprises a microchannel and comprises at least one dividing wall that separates the second channel into at least a first and a second subchannel. The first layer and the manifold are each substantially planar. (See Figure 5) The manifold is substantially contained within the first layer. The first layer and the manifold are substantially coplanar. (See Figure 5) The first channel is disposed in the first layer and flow through the first channel is substantially parallel to the plane of the first layer. The first channel and the manifold are about the same height. (See Figure 5) The

Application/Control Number: 10/695,400

Art Unit: 1743

second layer is substantially planar and the second channel is disposed in the second layer and flow through the second channel is substantially parallel to the plane of the second layer. The first layer and the second layer are substantially parallel and the nonzero angle refers to an angle within the second layer. (See Figure 5)



Fuesser further teaches a plate comprising an opening is disposed between the first and second layers and flow from the first layer passes through the opening into the second layer. (See Figure 5) Additionally, Fuesser teaches the first layer comprises multiple adjacent parallel microchannels separated by channel walls and the second layer comprises multiple adjacent parallel microchannels separated by continuous channel walls. The continuous channel walls traverse the width of the multiple adjacent parallel microchannels in the first layer. (See Figure 5) The second layer is made from a sheet containing slots. It is inherent that the second layer tends to equalize flow through the multiple adjacent parallel microchannels in the first layer.

Art Unit: 1743

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jyoti Nagpaul whose telephone number is 571-272-

1273. The examiner can normally be reached on Monday thru Friday (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Page 5